



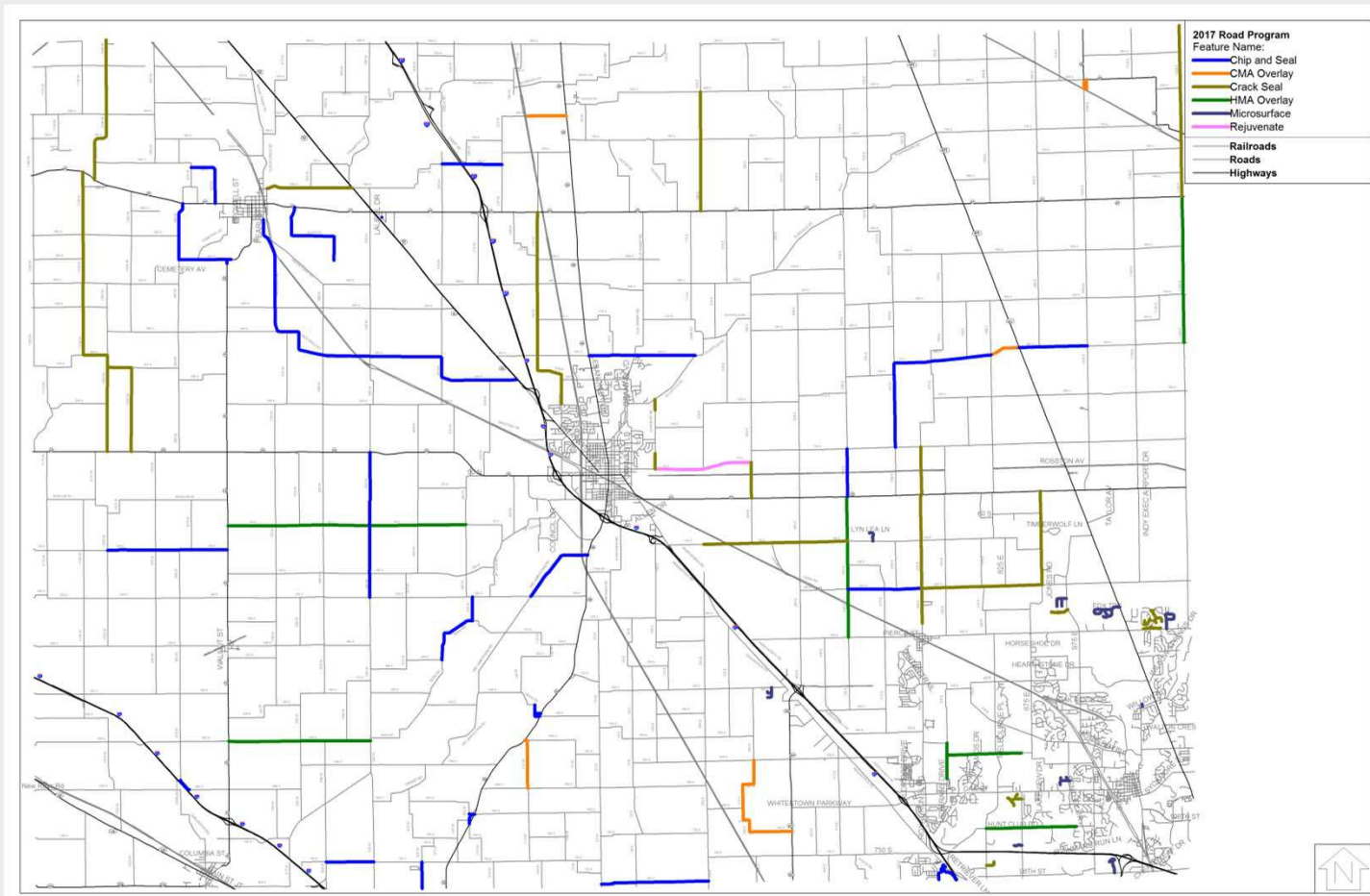
Boone County Highway Department Annual Report

February 2018

Craig M. Parks, PE

Boone County Engineer

2017 Road Maintenance Program



2017 Road Maintenance Program

Treatment	Miles Completed
HMA Resurfacing	18.0
Chip & Seal (single)	18.0
Chip & Seal (double)	28.0
Crack Fill	25.0
Microsurfacing	4.3
CMA Resurfacing	6.5
Total Treated =	99.8

- 426 Miles of Paved Roads
- Nearly 100 Miles Treated
- 23% of Paved Roads Received treatment in 2017

2017 Bridge Program

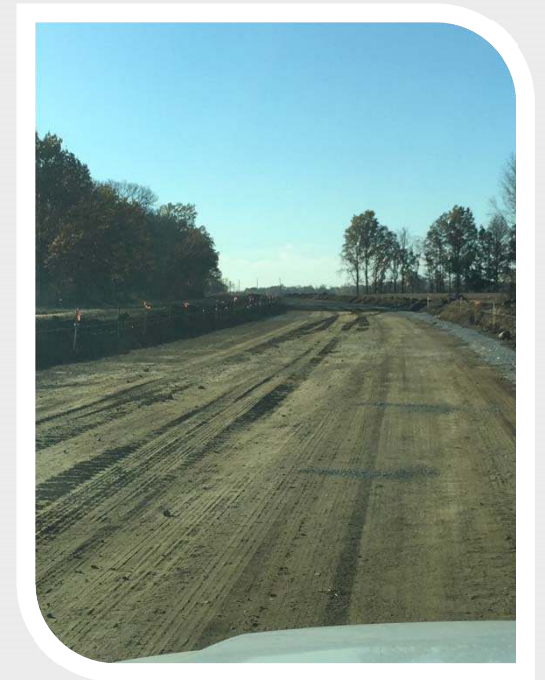
- Completed bridge #159 (CR 400S over Smith Ditch)
- Completed rehabilitation of bridges #11&12 (Sugar Creek Road)
- Bid removal of bridge #303 (Jameson Street)
- Bridge repair projects
 - Bridge 193 (CR 300S over Jackson Run)
 - Bridge 307 (Meridian over Prairie Creek) repair



Reconstruction of Bridge #159

2017 Major Capital Projects

- Began construction of Whitestown Connector
 - Included construction of new Bridge 190 (Connector over Jackson Run)
 - Construction estimated to be completed in Fall 2018
 - Project includes \$4,654,592 of federal funds
- Submitted funding request to MPO for corridor study of CR 300S
 - Joint project with Zionsville
 - Regionally significant corridor
 - Anticipate award later this year



Whitestown Connector Project

2017 New Equipment

- New Gradall
- 2 Tandem Axle Dump Trucks outfitted with new salt beds
- 1 light duty dump truck
- 1 Skid Steer w/ Cold planer
- 2 new V-plows
- A new equipment trailer to haul our new equipment
- New light duty snow plow
- Various chainsaws and power hand equipment



2016 Department Staff Wins



- Internal staff performance awards
 - Perfect Attendance – Lloyd Couchman, Max Mendenhall, Nick Parr, Craig Parks, Lori Rapp, Dave Smith, Jeff Tharp
 - Safety Award – Glenn Beasey
 - Mental Attitude Award – John Barrett
- Nick Parr named Highway Supervisor of the Year by IACC
- Bryan Hickman passed 2 INDOT Technician certification examinations
- Glenn Beasey passed pesticide application examination

2017 Department Wins

- HB 1002 Passed by State legislators - \$1.5M per year additional
- Awarded \$436,000 community crossings grant funds
- Completed thoroughfare plan update
- Department responsiveness
 - 1,253 Work Orders called in
 - 1,056 Completed (84%)
- New permit ordinance
 - Protects our infrastructure
 - Increases communication of lane restrictions
 - Fees Offset County's cost
- Improved Highway content on Website



Highway Department

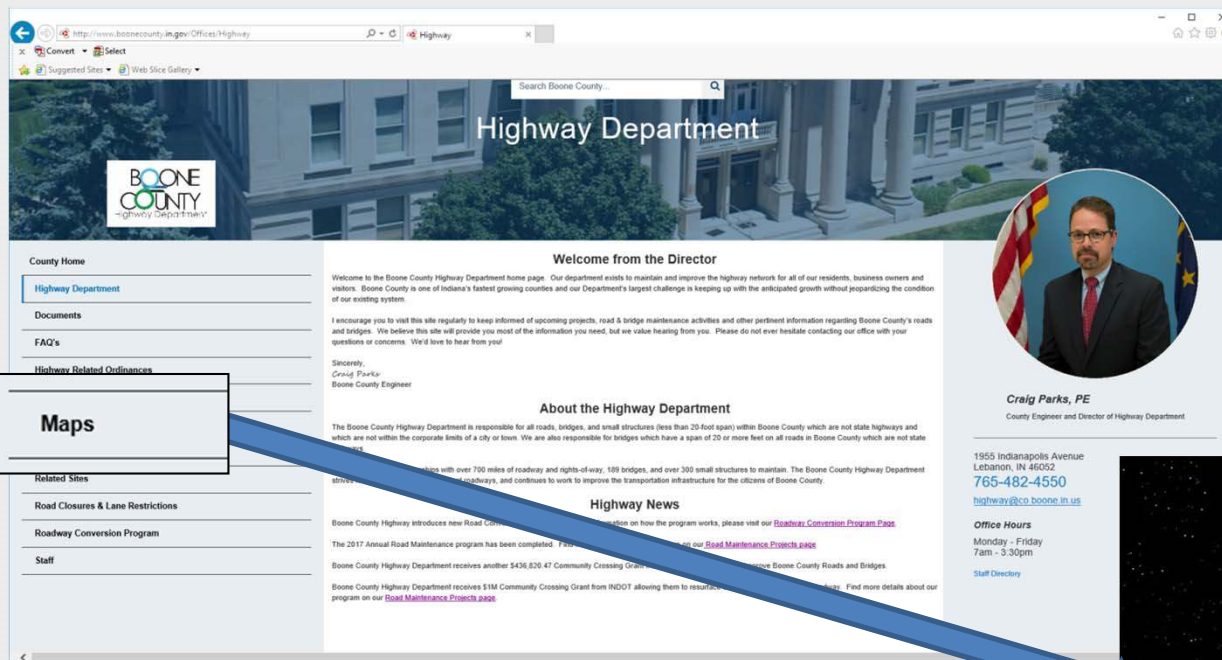
County Website

- Highway news
- Documents
 - Thoroughfare Plan
 - Asset Management Plans
- Highway related ordinances
- Permits
 - Interactive PDF applications
 - Submit Electronically
- Project Lists
- Road Closures & Lane Restrictions
- Roadway Conversion Program
- Maps



Highway Department

County Website Maps



2018 Road Program

Proposed Program

- Proposed budget
\$5,150,000
- Estimated 79.3 miles to
be treated
- Includes 7 miles of
road conversions
- Less miles than 2017
but more intensive &
expensive treatments

Treatment	Miles to be Completed
CMA Resurfacing	1.7
Road Conversions	7.5
Chip & Seal	23.4
Crack Fill	25.0
HMA Resurfacing	14.3
HMA Structural Overlay	7.4
Total to Be Treated =	79.3

2018 Road Maintenance Program

Other Preservation

- Crack fill & microsurface roadways not yet selected
- Final selection to be based on 2018 PASER inspections
- Crack fill
 - Most cost effective preservation technique
 - Doesn't improve condition rating, but extends life
- Microsurfacing
 - Provides new wearing surface
 - Used for curb and gutter sections
 - Similar benefits as chip & seal
- Budgeted funds also set aside for gravel roads
- Allocations will be based on bid results of other treatments

2018 Road Conversions

- Total budget for 2018 is \$500,000
- Systematic scoring system developed a score based on the following criteria:
 - Conversion Cost
 - Termini
 - Connectivity
 - Public Support / Petitions
 - Work needed to prepare for conversion
 - Identified as BCHD priority
 - Traffic
 - Thoroughfare Plan Classification
 - Proximity to a State Road
 - Willingness to dedicate right-of-way
 - Regularity of Maintenance needed
 - Private Financial Participation
- First year recommendations based off of Highway priority list
- Future years will include applications received before June 1st

Road Conditions

- 2015 PASER rating = 4.53 (Fair)
- 2016 PASER rating = 4.76 (Fair)
- 2017 PASER rating = 5.38 (Fair)
 - Did not account for 2016 paving project which was completed in 2017
- 2018 PASER rating = ??



2017 Bridge Condition

United Annual Inspection Report

- Average Age
 - Boone County = 51 years
 - State Average = 43 years
- Load Rated Bridges
 - Boone County = 15.3%
 - State Average = 11.1%
- Sufficiency Rating < 50
 - Boone County = 8.9%
 - State Average = 8.2%
- Full report to be presented at March 5th Commissioner's meeting



Boone County Bridge 207

2018 Bridge Program

- Reconstruct bridge #72 (100N over Heath & Lane Ditch)
- Begin federal-aid design for reconstruction of bridge #41 (Scotland Road Bridge)
- Bid repairs to bridge #32 (Creek Road over Sugar Creek)
- Bid repairs to bridge #100 (450N over Prairie Creek)
- Begin rehabilitation plans for bridge #311 (Williams Street over Prairie Creek)
- Begin reconstruction plans for bridge #207 (Holliday Road Bridge)
- Begin reconstruction plans for bridge #161 (CR 600S over Grassy Branch)

Highway Department

2018 Goals

- Improve website content / functionality
 - Doing business with Boone County Highway Department (RFP's, Bids)
 - Up to date road closure information/notifications
- Develop a sign inventory and 5 year replacement plan
- Maximize Community Crossings Grant
- Obtain Federal funding for Bridge 154
- Finish & adopt construction standards revisions
- Electronic and Online Payments
- Additional staff development
- Implement brine pilot program
- Develop herbicide spraying program

